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Design optimization of integrated BiDi triplexer optical filter based on planar lightwave circuit

- Optics Express, Vol. 14 Issue 11, pp.4675-4686 (2006)
- Xu, Chenglin; Hong, Xiaobin; Huang, Wei-Ping
- Design optimization of a novel integrated bi-directional (BiDi) triplexer filter based on planar lightwave circuit (PLC) for fiber-to-the premise (FTTP) applications is described. A...

Mach-Zehnder interferometer with a uniform wavelength period

- Optics Letters, Vol. 29 Issue 5, pp.454-456 (2004)
- Mizuno, Takayuki; Kitoh, Tsutomu; Oguma, Manabu; Inoue, Yasuyuki; Shibata, Tomohiro; Takahashi, Hiroshi
- We have realized a first optical filter composed of optical delay lines and couplers that has a periodic response with respect to wavelength, whereas a conventional optical filter is...

Dispersion Slope Equalizer for Dispersion Shifted Fiber Using a Lattice-Form Programmable Optical Filter on a Planar Lightwave Circuit

- Journal of Lightwave Technology, Vol. 16 Issue 9, pp.1647- (1998)
- Takiguchi, Koichi; Kawanishi, Satoki; Takara, Hidehiko; Himeno, Akira; Hattori, Kuninori
- This paper reports an integrated-optic dispersion slope (third-order dispersion) equalizer for dispersion shifted fiber which employs a lattice-form programmable optical filter on a a...



### Optical-Signal-Processing Device Based on Waveguide-Type Variable Delay Lines and Optical Gates

- Journal of Lightwave Technology, Vol. 24 Issue 7, pp.2593- (2006)
- Takiguchi, Koichi; Itoh, Mikitaka; Shibata, Tomohiro
- In this paper, an optical-signal-processing device mainly designed for time-slot switching is demonstrated. The device is composed of variable delay-line arrays fabricated by planar...



### Uniform Wavelength Spacing Mach-Zehnder Interferometer Using Phase-Generating Couplers

- Journal of Lightwave Technology, Vol. 24 Issue 8, pp.3217- (2006)
- Mizuno, Takayuki; Kitoh, Tsutomu; Oguma, Manabu; Inoue, Yasuyuki; Shibata, Tomohiro; Takahashi, Hiroshi
- A theoretical and experimental study of an optical interferometer circuit with a uniform wavelength spacing is presented. The operating principle of the filter and a phase-generating...



### Fabrication of a TFF-Attached WDM-Type Triplex Transceiver Module Using Silica PLC Hybrid Integration Technology

- Journal of Lightwave Technology, Vol. 24 Issue 12, pp.5031-5038 (2006)
- Han, Young-Tak; Park, Yoon-Jung; Park, Sang-Ho; Shin, Jang-Uk; Lee, Chul-Wook; Ko, Hyunsung; Baek, Yongsoon; Park, Chul-Hee; Kwon, Yoon-Koo; Hwang, Wol-Yon; Oh, Kwang-Ryong; Sung, Heekyung
- An optical triplex transceiver (TRx) module, which consists of thin-film filter (TFF)-attached wavelength-division multiplexer (WDM) and photodiode (PD) carriers, has been fabricated...



### A Wavelength-Tunable Optical Transmitter Using Semiconductor Optical Amplifiers and an Optical Tunable Filter for Metro/ Access DWDM Applications

- Journal of Lightwave Technology, Vol. 23 Issue 3, pp.1164- (2005)
- Kani, Jun-ichi; Iwatsuki, Katsumi
- This paper proposes and demonstrates a widely tunable and precisely

controllable optical transmitter that uses semiconductor optical amplifiers (SOAs) and an optical tunable filter...



#### Advances in PLC Technology for Wavelength Routing Applications

- Integrated Photonics Research and Applications (IPRA) 2006 paper: IMB1
- Technical Digest (CD)
- Brainard, Robert; Fondeur, Barthelemy; Dougherty, David J
- Design advances have dramatically improved the performance of Planar Lightwave Circuit (PLC) Reconfigurable Optical Add-Drop Multiplexers (ROADM). Methods used to reduce insertion...



#### Design and Analysis of a Control System for an Optical Delay-Line Circuit Used as Reconfigurable Gain Equalizer

- Journal of Lightwave Technology, Vol. 21 Issue 9, pp.1944- (2003)
- Schlipf, T R; Street, M W; Pandavenes, J; McBride, R; Cumming, D R S
- The design and analysis of a control system for a coherent two-port lattice-form optical delay-line circuit used as reconfigurable gain equalizer is presented. The design of the...



#### Triple Wavelength Demultiplexers for Low-Cost Optical Triplexer Transceivers


- Journal of Lightwave Technology, Vol. 25 Issue 1, pp.350-358 (2007)
- Song, Jeong Hwan; Lee, Kyung Shik; Oh, Yunkyung
- We report triple wavelength demultiplexers adopting a thin-film filter (TFF) and a waveguide Bragg grating as a reflector for low-cost integrated optical triplexer transceivers...




#### Interleave Filter Based on Coherent Optical Transversal Filter

- Journal of Lightwave Technology, Vol. 24 Issue 7, pp.2602- (2006)
- Mizuno, Takayuki; Saida, Takashi; Kitoh, Tsutomu; Shibata, Tomohiro; Inoue, Yasuyuki
- The principle of the transversal interleave filter previously proposed as a novel class of interleave filter is described. The principle of a

conventional 1 × 1 coherent optical...

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